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LISTS OF SPECIES

The Reptile Collection of the Museu de Zoologia, Universidade Federal da Bahia, Brazil

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ABSTRACT: Brazilian scientific collections represent an important sample of the country's biodiversity and are a testament to its history. The Reptile Collection of the Museu de Zoologia from Universidade Federal da Bahia (CRMZUFBA) has 5,206 specimens and 185 species (13 endemic to Brazil and 9 threatened) with one quarter of the known reptile species listed in Brazil, from over 175 municipalities. Although the CRMZUFBA houses species from all Brazilian biomes there is a strong regional presence. Knowledge of the species housed in smaller collections could avoid unrepresentative species descriptions and provide information concerning intraspecific variation, ecological features and geographic coverage.

INTRODUCTION

Brazil has outstanding vertebrate diversity, especially in mammal, amphibian and fish richness (Agostinho *et al* 2005; Costa *et al* 2005; Silvano and Segalla 2005), and has notable numbers for birds and reptiles (Marini and Garcia 2005; Rodrigues 2005).

Brazilian scientific collections are a very important sample of this great diversity and represent a cultural inheritance, providing information on the human impact over time (Martins 1988; Taub 2003; Zaher and Young 2003). They are also a useful (and in many cases unique) tool for biogeographic, ecologic, taxonomic and evolutionary research (e.g. Graham *et al*. 2004; Silva Jr. 2007; Franco and Ferreira 2002; Rodrigues 1987).

The Zoology Collection at the Museu de Zoologia of the Universidade Federal da Bahia (MZUFBA) located in the municipality of Salvador, northeastern Brazil, began in 1940 with the incorporation of the collection of butterflies belonging to Dr. Pedro de Araujo, and today houses nearly 120,000 specimens. The first reptiles at the MZUFBA were the snakes collected by Dra. Tania Brazil in 1982 during the wildlife rescue operation at the Pedra do Cavalo hydroelectric power plant. The Reptile Collection of the Museu de Zoologia (CRMZUFBA) was properly founded in 1987 and grew substantially in 1988 due to the many specimens collected during a second great fauna rescue for the construction of Itaparica Dam in the São Francisco River.

Herein we summarize the Reptile Collection of the Museu de Zoologia, Universidade Federal da Bahia (CRMZUFBA), and discuss its representativeness and relevance in relation to the List of Brazilian Reptiles (Bérnils and Costa 2011).

MATERIALS AND METHODS

The CRMZUFBA includes snakes, lizards and amphisbaenids. The specimens analyzed in this study are those catalogued from 1987, when cataloguing began, to 2012. The zoological nomenclature follows Bérnils and Costa (2011).

The analysis of the CRMZUFBA representativeness was carried out by comparing the number of species in each family in the CRMZUFBA with the numbers from the whole of Brazil according to Bérnils and Costa (2011). This will show which families are well-represented in the CRMZUFBA and also whether they constitute a significant sample size of the richness of Brazilian reptiles. A few poorly preserved specimens or those of unclear taxonomy could only be identified to the genus level and are identified by a number (e.g., *Leptophis* sp. 1). These taxa are not included in the analysis of representativeness. The checklist of species can be found in Table 1. Because it would be impractical to include all of the CRMZUFBA catalogue numbers for each species here, we included only one representative catalogue number for each species. Interested researchers should contact the CRMZUFBA for a more detailed list. Table 1 also includes the total number of records of each species. Families are arranged in the order used by Bérnils and Costa (2011); genera and species are arranged alphabetically within families. Species that are known to be endemic to Brazil as well as species evaluated as threatened according CITES, IUCN or IBAMA are also listed in it.

RESULTS AND DISCUSSION

The CRMZUFBA has 5,206 specimens and 185 species from over 175 different municipalities in Brazil. Thirteen of these are known to be endemic to Brazil and nine threatened according CITES, IUCN or IBAMA. There are 2,203 snake specimens, 2,964 lizards and 39 amphisbaenids. The unidentified specimens totaled 135 (Table 1). Approximately 90% of specimens are from Bahia, although specimens from all Brazilian biomes and their main phytophysiognomies: ombrophylous forest, caatinga, savannas, seasonal

forests, "campo rupestre" and "restingas" are present. The collection data have been computerized, although the data have not been included in national or international online databases.

Snakes

Of the 371 species reported from Brazil (Bérnils and Costa 2011) the CRMZUFBA houses 110 (about 30%). The best represented families in the collection are Boidae and Colubridae, followed by Viperidae, Typhlopidae, Dipsadidae, Elapidae, Anomalepididae and Leptotyphlopidae. The Aniliidae and Tropidophiidae are not represented in the collection.

Lizards

Of the 240 species in the country, (Bérnils and Costa 2011) the CRMZUFBA houses 67 (28%). The best represented families in the collection are Iguanidae and Anguidae followed by Gekkonidae, Scincidae, Phyllodactylidae, Liolaemidae, Polychrotidae, Tropiduridae, Teiidae, Gymnophthalmidae, Leiosauridae and Sphaerodactylidae.

Amphisbaenids

All of the 66 species listed for the country (Bérnils and Costa 2011) belong to the family Amphisbaenidae (Mott and Vieites 2009). The collection houses eight species (12%).

Although the CRMZUFBA contains a limited number of specimens, it is larger than some important Brazilian collections considered by Prudente *et al.* (2005) as "midsized" and provides a valuable historic and biodiversity database. For instance, the Reptile Collection of Instituto Nacional de Pesquisas da Amazônia houses about 3,500 specimens (INPA 2012), the Museu de Zoologia João Moojen 2,220 specimens (UFV 2012), the Museu de Zoologia Professor Mello Leitão 3,000 (MBML 2012) and the Museu de Zoologia from Universidade de Campinas 3,184 (UNICAMP 2012).

There are a few specimens in CRMZUFBA that do not appear to belong to any currently known species. These are in the genera *Apostolepis*, *Leptophis, Sibynomorphus*, *Thamnodynastes*, *Micrurus*, *Anolis* and *Cnemidophurus*. Detailed taxonomic studies of these specimens are needed.

The use of CRMZUFBA data as a tool in biogeographic, ecological and taxonomic studies could avoid unrepresentative species descriptions and promote discussions about diversity, especially regionally, in a space-time perspective. They can also provide insight on the priority gaps for collection development, which in turn enables a more representative sample of the reptile fauna.

We encourage the publication of the holdings of other less well-known collections, computerization and online hosting of collection data, and the exchange of specimens and data among museums, as proposed by Marinoni et al (2006). Sharing of information will promote accurate identification of specimens and greater understanding of biodiversity.

Table 1. Checklist of species housed in the Reptile Collection of Museu de Zoologia, Universidade Federal da Bahia (CRMZUFBA). Endemic species known to occur in some Brazilian State are marked with ** and threatened species listed under CITES, IUCN or IBAMA are marked with *.

TAXON	REPRESENTATIVE CATALOG NUMBER	TOTAL RECORDS
Sauria		
Gekkonidae		
Hemidactylus brasilianus Amaral, 1935	2269	51
Hemidactylus mabouia Moreau de Jonnès, 1818	1040	23
Lygodactylus klugei Smith, Martin and Swain, 1977	2237	41
Phyllodactylidae		
Bogertia lutzae Loveridge, 1941	1323	31
Gymnodactylus darwinii Gray, 1845	1160	233
Gymnodactylus geckoides Spix, 1825	896	28
Phyllopezus pollicaris Spix, 1825	1140	142
Thecadactylus rapicauda Houttuyn, 1782	1132	1
Sphaerodactylidae		
Coleodactylus meridionalis Boulenger, 1888	1312	123
Gonatodes humeralis Guichenot, 1855	1131	1
Scincidae		
Mabuya agilis Raddi, 1823	816	5
*Mabuya agmosticha*** Rodrigues, 2000	530	45
Mabuya bistriata Spix, 1825	30	8
Mabuya heathi Schmidt and Inger, 1951	1454	25
Mabuya macrorhyncha Hoge, 1947	1036	10
Mabuya nigropunctata (Spix, 1825)	1137	4
Hoplocercidae		
Hoplocercus spinosus Fitzinger, 1843	2712	1
Iguanidae		
Iguana iguana Linnaeus, 1758	1967	10
Leiosauridae		
Enyalius catenatus Wied, 1821	1090	61
Urostrophus vautieri Duméril and Bibron, 1837	819	1

Table 1. ***Continued.***

TAXON	REPRESENTATIVE CATALOG NUMBER	TOTAL RECORDS
Liolaemidae		
*Liolaemus lutzae**** Mertens, 1938	821	2
Polychrotidae		
Anolis fuscoauratus D'Orbigny, 1837	1125	34
Anolis punctatus Daudin, 1802	1126	10
Anolis ortonii Cope, 1868	2428	1
Polychrus acutirostris Spix, 1825	1301	43
Polychrus marmoratus Linnaeus, 1758	1129	6
Tropiduridae		
*Eurolophosaurus amathites*** Rodrigues, 1984	1968	76
*Eurolophosaurus divaricatus*** Rodrigues, 1984	1699	81
Strobilurus torquatus Wiegmann, 1834	1030	8
Tropidurus cocorobensis Rodrigues, 1987	2813	1
Tropidurus hispidus Spix, 1825	2309	151
Tropidurus hygomi Reinhardt and Luetken, 1861	1619	266
Tropidurus oreadicus Rodrigues, 1987	1127	2
*Tropidurus psammonastes*** Rodrigues, Kasahara and Yonenaga-Yasuda, 1988	2155	152
Tropidurus semitaeniatus Spix, 1825	1122	42
Tropidurus torquatus Wied, 1820	831	9
Uranoscodon superciliosus Linnaeus, 1758	1130	1
Anguidae		
Diploglossus fasciatus Gray, 1831	694	1
Diploglossus lessonae Peracca, 1890	551	4
Ophiodes striatus Spix, 1825	1324	4
Gymnophthalmidae		
Acratosaura mentalis Amaral, 1933	661	2
Alexandresaurus camacan Rodrigues, Pellegrino, Dixo, Verdade, Pavan, Argôlo and Sites Jr., 2007	2994	2
*Calyptommatus leiolepis*** Rodrigues, 1991	1750	282
*Calyptommatus sinebrachiatus*** Rodrigues, 1991	1995	95
Cercosaura ocellata Wagler, 1830	958	5
Colobosaura modesta Reinhardt and Luetken, 1862	149	10
Dryadosaura nordestina Rodrigues, Freire, Pellegrino and Sites Jr., 2005	957	51
Ecpleopus gaudichaudii Duméril and Bibron, 1839	1328	3
*Leposoma annectans*** Ruibal, 1952	1097	19
Leposoma percarinatum Müller, 1923	1133	1
Leposoma puk Rodrigues, 2002	661	1
Leposoma scincoides Spix, 1825	1374	109
Placosoma cordylinum Tschudi, 1847	824	1
Placosoma glabellum (Peters, 1870)	2983	1
*Procellosaurinus erythrocercus*** Rodrigues, 1991	1479	39
Psilophthalmus paeminosus Rodrigues, 1991	2671	12
Micrablepharus maximiliani (Reinhardt and Luetken, 1862)	2844	5
Vanzosaura rubricauda Boulenger, 1902	2622	68
Teiidae		
Ameiva ameiva Linnaeus, 1758	2315	36
*Cnemidophorus abaetensis** Dias, Rocha and Vrcibradic, 2002	1326	62
Cnemidophorus cryptus Cole and Dessauer, 1993	1134	1
Cnemidophorus ocellifer Spix, 1825	2310	234
Cnemidophorus sp.1	2244	132
Kentropyx calcarata Spix, 1825	1135	42
Tupinambis merianae Duméril and Bibron, 1839	1123	11
Tupinambis quadrilineatus Manzani and Abe, 1997	2837	1
Tupinambis teguixin Linnaeus, 1758	718	1
Amphisbaenia		
Amphisbaenidae		
Amphisbaena alba Linnaeus, 1758	7	6
*Amphisbaena arda*** Rodrigues, 2003	37	3
Amphisbaena fuliginosa Linnaeus, 1758	9	1
*Amphisbaena hastata*** Vanzolini, 1991	20	16

Table 1. ***Continued.***

TAXON	REPRESENTATIVE CATALOG NUMBER	TOTAL RECORDS
Amphisbaena cf. *octostega*** Duméril, 1851	42	1
Amphisbaena cf. *polystega* Duméril, 1851	16	4
Amphisbaena pretrei Duméril and Bibron, 1839	1	7
Amphisbaena vermicularis Wagler, 1824	45	1
Serpentes		
Anomalepididae		
Liotyphlops beui Amaral, 1924	1841	1
Typhlopidae		
Typhlops brongersmianus Vanzolini, 1976	1644	17
*Typhlops yonenagae*** Rodrigues, 1991	1705	8
Leptotyphlopidae		
Epictia borapeliotes Vanzolini, 1996	1713	8
Boidae		
*Boa constrictor** Linnaeus, 1758	156	31
*Corallus hortulanus** Linnaeus, 1758	644	6
*Epicrates assisi** Machado, 1945	226	17
*Epicrates cenchria** Linnaeus, 1758	675	4
*Epicrates crassus** Cope, 1862	1539	4
*Eunectes murinus** Linnaeus, 1758	275	5
Colubridae		
Chironius bicarinatus Wied, 1820	1858	1
Chironius carinatus Linnaeus, 1758	1959	4
Chironius exoletus Linnaeus, 1758	402	20
Chironius flavolineatus Boettger, 1885	592	20
Chironius foveatus Bailey, 1955	507	1
Chironius fuscus Linnaeus, 1758	1652	2
Chironius laevicollis Wied, 1824	1599	1
Chironius quadricarinatus Boie, 1827	1671	3
Drymarchon corais Boie, 1827	231	6
Drymoluber dichrous Peters, 1863	293	5
Leptophis ahaetulla Linnaeus, 1758	1536	18
Mastigodryas bifossatus Raddi, 1820	1258	15
Oxybelis aeneus Wagler, 1824	1564	40
Spilotes pullatus Linnaeus, 1758	276	14
Tantilla marcovani Lema, 2004	1769	1
Tantilla melanocephala Linnaeus, 1758	625	25
Dipsadidae		
Apostolepis ammodites Ferrarezzi, Barbo and Albuquerque, 2005	728	3
Apostolepis assimilis Reinhardt, 1861	1838	2
Apostolepis cearensis Gomes, 1915	1796	11
Apostolepis gaboi Rodrigues, 1992	1673	32
Apostolepis gr. *longicaudata* Amaral, 1921	1808	4
Atractus pantostictus Fernandes and Puorto, 1993	1852	1
Atractus potschi Fernandes, 1995	2047	63
Atractus guentheri (Wucherer, 1861)	2382	1
Boiruna sertaneja Zaher, 1996	1374	14
Dipsas catesbyi Sentzen, 1796	655	4
Dipsas indica Laurenti, 1768	568	3
Dipsas variegata Duméril, Bibron and Duméril, 1854	1520	3
Echinanthera undulata Wied, 1824	1843	1
Erythrolamprus aesculapii Linnaeus, 1766	336	4
Helicops angulatus Linnaeus, 1758	1296	20
Helicops carinicaudus (Wied, 1825)	2318	1
Helicops leopardinus Schlegel, 1837	1741	43
Helicops modestus Günther, 1861	1834	2
Hydrodynastes gigas Duméril, Bibron and Duméril, 1854	1839	1
Hydrops triangularis (Wagler, 1824)	2391	1
Imantodes cenchoa Linnaeus, 1758	390	5
Leptodeira annulata Linnaeus, 1758	1148	40

Table 1. ***Continued.***

TAXON	REPRESENTATIVE CATALOG NUMBER	TOTAL RECORDS
Liophis almadensis Wagler, 1824	2041	28
Liophis dilepis Cope, 1862	14	32
Liophis maryellenae Dixon, 1985	1797	1
Liophis miliaris Linnaeus, 1758	344	29
Liophis mossoroensis Hoge and Lima-Verde, 1972	60	17
Liophis poecilogyrus Wied, 1825	1812	63
Liophis reginae Linnaeus, 1758	487	6
Liophis taeniogaster Jan, 1863	664	25
Liophis typhlus Linnaeus, 1758	798	5
Liophis viridis Günther, 1862	342	29
Oxyrhopus clathratus Duméril, Bibron and Duméril, 1854	1860	1
Oxyrhopus guibei Hoge and Romano, 1978	650	22
Oxyrhopus petola Linnaeus, 1758	645	15
Oxyrhopus rhombifer Duméril, Bibron and Duméril, 1854	216	9
Oxyrhopus trigeminus Duméril, Bibron and Duméril, 1854	416	125
Philodryas agassizii Jan, 1863	2043	1
Philodryas mattogrossensis Koslowsky, 1898	1995	1
Philodryas nattereri Steindachner, 1870	854	70
Philodryas olfersii Lichtenstein, 1823	1818	76
Philodryas patagoniensis Girard, 1858	1294	29
Phimophis chui Rodrigues, 1993	1729	2
Phimophis guerini Duméril, Bibron and Duméril, 1854	1960	1
Phimophis scriptorcibatus Rodrigues, 1993	1752	24
Pseudoboa nigra Duméril, Bibron and Duméril, 1854	245	48
Psomophis genimaculatus Boettger, 1885	2005	1
Psomophis joberti Sauvage, 1884	2135	2
Sibynomorphus mikanii Schlegel, 1837	1643	10
Sibynomorphus neuwiedi Ihering, 1911	545	22
Sibynomorphus sp. 1	800	3
Siphlophis compressus Daudin, 1803	1857	2
Siphlophis leucocephalus Günther, 1863	1461	1
Taeniophallus affinis Günther, 1858	1728	1
Taeniophallus occipitalis Jan, 1863	1656	9
Thamnodynastes almae Franco and Ferreira, 2003	138	26
Thamnodynastes nattereri Mikan, 1828	1798	3
Thamnodynastes pallidus Linnaeus, 1758	1292	8
Thamnodynastes sertanejo Bailey, Thomas and Silva-Jr, 2005	103	28
Thamnodynastes sp.2 Franco and Ferreira, 2002	840	50
Thamnodynastes strigatus Günther, 1858	1834	1
Tomodon dorsatus Duméril, Bibron and Duméril, 1854	1833	1
Tropidodryas striaticeps Cope, 1869	1380	3
Xenodon merremii Wagler, 1824	1924	55
Xenodon neuwiedii Günther, 1863	1835	1
Xenodon rhabdocephalus Wied, 1824	1651	9
Xenopholis scalaris Wucherer, 1861	1992	1
Elapidae		
Micrurus corallinus Merrem, 1820	865	9
Micrurus frontalis Duméril, Bibron and Duméril, 1854	1832	1
Micrurus ibiboboca Merrem, 1820	99	44
Micrurus lemniscatus Linnaeus, 1758	1439	120
Viperidae		
Bothriopsis bilineata Wied, 1825	2007	3
Bothropoides erythromelas Amaral, 1923	1372	55
Bothropoides jararaca Wied, 1824	1238	12
Bothropoides lutzi Miranda-Ribeiro, 1915	985	3
Bothropoides marmoratus Silva and Rodrigues, 2008	1548	1
Bothropoides mattogrossensis Amaral, 1925	2003	1
Bothropoides neuwiedi Wagler, 1824	1252	18
Bothrops atrox Linnaeus, 1758	347	4

Table 1. ***Continued.***

TAXON	REPRESENTATIVE CATALOG NUMBER	TOTAL RECORDS
Bothrops jararacussu Lacerda, 1884	1896	3
Bothrops leucurus Wagler, 1824	605	440
Bothrops moojeni Hoge, 1966	1326	3
*Crotalus durissus** Linnaeus, 1758	1636	50
Lachesis muta Linnaeus, 1766	659	4
Total		**5206**

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